

1   **Claims**

- 2   1. A pump comprising:
- 3       a base comprising a socket;
- 4       a pumping set comprising a cylinder inserted in the socket and a
- 5       piston put in the cylinder;
- 6       a first joint put in the cylinder, the first joint comprising a transverse
- 7       channel and an axial channel in communication with the transverse
- 8       channel;
- 9       a gauge set comprising a gauge, a housing for receiving the gauge
- 10      and a tube extending from the housing;
- 11      a second joint inserted in the socket, the cylinder, the first joint and
- 12      the tube, the second joint comprising an axial channel, a first
- 13      transverse channel for communicating the axial channel thereof with
- 14      the axial channel of the first joint and a second transverse channel for
- 15      communicating the axial channel thereof with the tube; and
- 16      a nozzle in communication with the second joint.
- 17   2. The pump according to claim 1 wherein the socket defining two
- 18      apertures for receiving the second joint.
- 19   3. The pump according to claim 1 wherein the cylinder defines two
- 20      apertures for receiving the second joint.
- 21   4. The pump according to claim 1 wherein the tube defines two
- 22      apertures for receiving the second joint.
- 23   5. The pump according to claim 1 wherein the gauge set comprises a
- 24      collar formed on the tube, and the cylinder is inserted in the socket
- 25      through the collar.

- 1 6. The pump according to claim 1 wherein the pumping set comprises a  
2 rod connected with the piston.
- 3 7. The pump according to claim 6 wherein the pumping set comprises a  
4 handle attached to the rod.
- 5 8. The pump according to claim 1 wherein the base comprises at least  
6 one pedal extending from the socket.
- 7 9. The pump according to claim 1 wherein the nozzle set comprises a  
8 nozzle for receiving a valve of an article to be pumped and a pipe for  
9 communicating the nozzle with the second joint.
- 10 10. The pump according to claim 9 wherein the nozzle set comprises a  
11 cap for communicating the pipe with the second joint.
- 12 11. The pump according to claim 1 wherein the second joint includes a  
13 head for abutment against the cylinder.
- 14 12. The pump according to claim 1 wherein the first joint is made  
15 independent of the base.
- 16 13. The pump according to claim 1 wherein the first joint is integrated  
17 with the base.
- 18 14. A pump comprising:  
19 a base comprising a first joint formed thereon, the first joint  
20 comprising a transverse channel and an axial channel in  
21 communication with the transverse channel;  
22 a pumping set comprising a cylinder for receiving the first joint and a  
23 piston put in the cylinder, the cylinder defining two apertures in  
24 communication with the transverse channel of the first joint;  
25 a gauge set comprising a gauge, a housing for receiving the gauge

1 and a tube extending from the housing and defining two apertures in  
2 communication with the transverse channel of the first joint;  
3 a second joint inserted in the apertures of the cylinder, the transverse  
4 channel of the first joint and the apertures of the tube, the second  
5 joint comprising an axial channel, a first transverse channel for  
6 communicating the axial channel thereof with the axial channel of the  
7 first joint and a second transverse channel for communicating the  
8 axial channel thereof with the tube; and  
9 a nozzle in communication with the second joint.

10 15. The pump according to claim 14 wherein the cylinder defines two  
11 apertures for receiving the second joint.

12 16. The pump according to claim 14 wherein the tube defines two  
13 apertures for receiving the second joint.

14 17. The pump according to claim 14 wherein the base comprises a socket  
15 for receiving the cylinder.

16 18. The pump according to claim 17 wherein the socket defining two  
17 apertures for receiving the second joint.

18 19. The pump according to claim 14 wherein the gauge set comprises a  
19 collar formed on the tube, and the cylinder is inserted in the socket  
20 through the collar.

21 20. The pump according to claim 14 wherein the second joint includes a  
22 head for abutment against the cylinder.